

Telegram: "EDUCATION"  
Telephone 234451/8



Ministry of Education & Sports  
Embassy House  
P.O. Box 7063  
Kampala,  
Uganda

In any correspondence on  
this subject please quote No ADM/01

23<sup>rd</sup> January 2008

To all Bidders,

## ADDENDUM - NO.1

**RE: CLARIFICATIONS WITH REFERENCE TO ENERGY FOR TRANSFORMATION- EDUCATION COMPONENT: SUPPLY, INSTALLATION AND MAINTENANCE OF SOLAR PV PACKAGES FOR POST PRIMARY EDUCATION INSTITUTIONS CONTRACT NO. 2**

Notice is given to all providers who received the bid document for the above mentioned tender. We received requests for clarification from some of the bidders. The following are the clarifications as per the queries raised.

ITEM	QUESTION	RESPONSE
<b>Lighting protection</b>	‘Lighting protection with surge arrestors on DC side is required in all AC distribution board (DB) to protect inverters.’ Is this correct?	<i>The inverter should be protected from atmospheric surges on both DC and AC sides. However, a surge arrestor is required on the AC side, either included in the inverter or provided in the distribution box</i>
<b>AGM Batteries</b>	There are hardly any AGM batteries with this low electrolyte density, it is higher at about 1.30. If we are to follow these	<i>We accept vented-wet lead-acid battery with a density below 1.25g/cl if they are modified as requested in the specs (“solar” type opr tubular</i>

	requirements then tubular plat batteries are the only ones to be supplied, is this correct too?	<i>type).</i> <i>We also accept sealed – VRLA batteries, but only AGM type (not gel type) and density should be up to 1.30</i>
<b>PV tilt angle</b>	The tilt angle between 10-12 degrees, this seems to be too small especially for dirt and dust removal. Should this be maintained? Or make it at least increase to 15 degrees	<i>10 degrees is the strict minimum and may lead to dirt accumulation in dusty and rainy climate, like Uganda. We can tolerate angle up to 15 degrees but not higher.</i>
<b>Quantities per PPEI</b>	We have ascertained the quantities for P1-P7 for lots, however we don't find the corresponding quantities for PPEI's	<i>The table F in the section VI – section 4 provide only the breakdown of the package quantities for each district. The detailed table per PPEI institution is given for the 129 institutions in table 5 of the price schedules (S VII).</i>
<b>Module size for P8-P9</b>	We are not in position to infer which solar-module sizes we attribute to P8 & P9	<i>The package P8 is for spare parts and shall include at least one solar module of each size(cf.Section VI - 2.3 –Table B)</i> <i>The Package P9 is for maintenance kit and includes only tools and consumables(cf.Section VI - 2.3-Table B); no modules</i>
<b>Bid Document</b>	If we purchase documents as any other local enterprise, but are in a	<i>This is acceptable as long as contractually/legally binding proof is</i>

	Consortium with partners from abroad. Can the bid be submitted in the name of a consortium?	<i>provided with the submission.</i>
<b>Maintenance contract</b>	What can you say about the 4-year contract with regard to submission of the bid because Annex VIIS seems not have any of the said documents related to this. We do not seem to have any separate document other than the ERT one with the drawings of the sites. We also do not seem to have anything about Section IX as described at the beginning of Section V Special Conditions of Contract.	<p><i>4-year maintenance contract is to provide for critical battery bank replacement after 3 years. If the battery bank passes this critical stage, then the subsequent battery replacements will be catered for by the user fees.</i></p> <p><i>The schematic drawings and the maintenance documentations will form part of proof of system performance during and after the warranty period.</i></p> <p><i>The bid shall include the details of two contracts; supply &amp; 1 year maintenance and 4 years maintenance.</i></p> <p><i>Please find attached Section IX for Extension Maintenance Contract</i></p>
<b>Technical specifications</b>	It is not clear between table A and C (Pages 5 – 53 & 5 -54) what the actual load quantities are. An example is how many phone chargers are usable in Lot 1. Also, where a cell in table C has not been shed grey but no load detail in the space, what is the implication?	<p><i>The load requirements are predetermined by the PV capacity in Table A.</i></p> <p><i>The appliances in Table C are possible combinations of appliances that can be powered by the system.</i></p> <p><i>Table C indicates that possible phone chargers are 6 for Lot 1 but bear in mind that different phone</i></p>

		<p><i>makes have different charging characteristics and connections.</i></p> <p><i>The field is not shaded grey and no appliance is indicated, the implication is that such appliance can be used but is not currently required by the PPEI</i></p> <p><i>Table A provides the quantities of the component that have to be provided for each packages, down to plugs</i></p>
--	--	--

The deadline for bid submission has been extended from **28<sup>th</sup> January 2008, 03.00 p.m** to **Friday 15<sup>th</sup> February 2008, 03.00 p.m.**

David .N. Kiyangi  
**For: PERMANENT SECRETARY.**